

GUJARAT TECHNOLOGICAL UNIVERSITY
MBA-SEMESTER-III-EXAMINATION-WINTER-2024

Subject Code: 1539613**Date: 21/12/2024****Subject Name: IT Project Management****Time: 10:30 AM TO 01:30 PM****Total Marks: 70****Instructions:**

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.
4. Use of simple calculators and non-programmable scientific calculators are permitted.

Q. No.	Question Text and Description	Marks
Q.1	Explain the following terms in short: (a) Business Case (b) Project Management (c) Payback (d) Project (e) Project Manager (f) NPV (g) SDLC	14
Q.2	(a) Discuss various phases and activities carried out during those phases in Project Management. (b) What is a project charter? Discuss its structure and the topics it covered in detail.	07 07
OR		
	(b) Discuss the state of IT-Project management as per the study of CHAOS and justify the major reasons behind the success of IT-Projects.	07
Q.3	(a) What is PERT? Discuss the use of PERT in IT project management. (b) List and explain different models of IT project development.	07 07
OR		
Q.3	(a) Scenario: You are the project manager for a software development project. The project involves building a custom e-commerce platform for a client. The requirements include user authentication, product catalog, shopping cart, payment gateway integration, and order tracking. The estimated size of the project is 50,000 lines of code (KLOC). Question: Using the Basic COCOMO model, calculate the estimated effort (in person-months) required for this project. Assume the project falls under the Organic mode with the following constants: • (a = 2.4) • (b = 1.05)	07
	(b) Describe size estimation techniques used in IT-Project development.	07
Q.4	(a) Discuss the role of 6-sigma in quality management of IT-Project. (b) What is Risk Management? Discuss common mistakes in Risk Management.	07 07

OR

- Q.4** (a) Discuss Communication management in an IT-Project. **07**
(b) What is procurement management? Discuss procurement management in detail. **07**

Q.5 Case Study: “TechHub App” Development Project

Background: “TechHub,” a startup specializing in tech-related services, aims to develop a mobile app that connects freelance developers with potential clients. The app will allow clients to post project requirements, and developers can bid on these projects. The project manager, Sarah, is leading the development effort.

Project Details:

- **Project Name:** TechHub App Development
- **Scope:** Design, development, testing, and deployment of the TechHub app.
- **Team Composition:** Project Manager, UI/UX Designer, Front-end Developer, Back-end Developer, QA Tester.
- **Timeline:** 6 months
- **Budget:** \$200,000

Phases of the Project:

1. **Requirements Gathering and Design:** Collect client and developer requirements, create wireframes, and finalize the app design.
2. **Development:** Build the app’s front-end and back-end components.
3. **Testing:** Conduct functional, usability, and security testing.
4. **Deployment and Launch:** Release the app to app stores and promote it.

(a) What challenges might Sarah face during the requirements gathering phase? **07**

(b) How can the project team manage risks during the development phase? **07**

OR

(a) What quality assurance practices should the QA Tester follow during testing? **07**

(b) What steps are crucial for a successful app launch? **07**
